



The Daedalean

Semper Discens

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CALENDAR

August

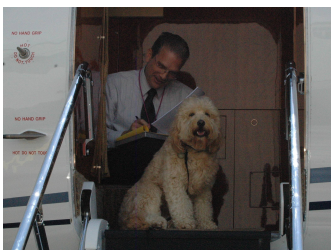
05-08 AUG-AEO Academy-Wright-Patterson
14-22 AUG-CTWG Cadet Encampment

For Future Planning

12 SEP-Wings Over Westerly Airshow
23-25 OCT-CTWG Conference and Cadet Ball

COL STURGES RECEIVES ASSISTANCE TO SOLVE LONG STANDING PROBLEM

Col Sturges has long suffered the pain of poor documentation by those CTWG CAPsters who wear "ramp pajamas" and aspire to the office of aviators. Accordingly, National Headquarters has authorized a new billet, a watch dog, so to speak, which will accompany each flight and dogmatically address the issue of missing, illegible and incorrect data. His bite is worse than his bark!



GARATT LECTURE SPONSORED BY ROYALS

CarolAnn Garratt presented a lecture about her world girdling and world record flight at a meeting of the Royal Charter Squadron on July 10th.

Garratt and crew mate Carol Foy flew a Mooney on a westward circumnavigation of the earth from Orlando to Orlando via a route within the northern sub-tropics. They managed to halve the previous record and finished the trip in eight and one half days.

The adventure was an excellent example of how to apply operational risk management techniques to minimize the mechanical, meteorological, and geographical hazards faced. In addition, the description of the work done during the 18 month preparation period showcased skill in resource management and the tenacious character of Ms Garratt.

Although the myriad details of the voyage will not allow a full discussion in the space allowed, some discussion of the details will allow the reader to savor the flavor of ORM as a technique to minimize risk in accord with mission requirements.

The aircraft has 700 hours on a well performing engine. A 100 hour inspection was performed and all accessories were removed and replaced. The aircraft was then flown for an additional 100 hours to season the new parts and get them past the most likely time for early failure, a process akin to "burning in" an electronic device. Ferry tanks, survival gear, high frequency radio and antenna, satellite phone, and a spare transponder were also installed and tested during the 100 hour break-in period. Cruise settings were established and the best distance in relation to speed and fuel economy were recorded and graphed.

Human resources involved two groups, the flight crew and the ground support personnel. Garratt selected Foy, another professional pilot, to share flying duties. Together, they engaged in long flights, practiced with the equipment, and perfected their techniques in crew resource management. They maintained a healthy life style and selected low residue food, fruit, and water for sustenance. Flight duties were broken down into two hour shifts and oxygen was used at altitude during the day and at all times at night. They also monitored their blood oxygen content with a simple medical device.

A knowledgeable ground officer arranged for overflight and landing permits and customs clearances. and was kept in contact via HF radio, satellite phone, and email. Each leg also had a "hard" decision point at which, unless all factors were within preselected parameters, a decision to abort would be made. This reduced the chance that a mistake would be made due to fatigue. Ground crews were arranged for and stood by at most of the refueling and rest stops to expedite customs clearance and move Garratt and Foy to a nearby hotel for some sleep.

Garratt had a lot of experience flying overseas. Her experience was backed by consultation with a professional meteorological service and other "round worlders," flyers who had previously completed similar voyages. December was chosen as the optimal time since this window provided the most favorable meteorological conditions in the sub tropics. The westward course took advantage of the prevailing northeast trade winds. Current charts were procured and a routing was selected to provide safe cruise altitudes and convenient refueling points and rest stops.

They flew legs of over 20 hours, crossed three oceans, and met the demands of the bureaucratic requirements of a number of foreign and domestic governments as well as the FAA and their

achievement has been recognized by the National Aeronautic Association. Their assiduous application of ORM reduced the risks to reasonable level and serve as a paradigm for study by CAP air and ground crews.



Capt Ganis Presents Certificate of Appreciation to Ms Garratt

The purpose of the flight was to raise money to support research into a cure for Amyotrophic Lateral Sclerosis Neurone Disease (ALS). Autographed copies of a book describing this flight and an earlier world flight were autographed and sold. Anyone wishing to obtain *Upon Silver Wings* or *Upon Silver Wings II* may do so by calling 1-617-441-7270. The price is \$25 and it is tax deductible. Actual costs of the trip were paid out of Garratt's privy privy purse so all money which you contribute will go directly to a most worthy cause.

DAE ROCKETTO ATTENDS REGION STAFF COLLEGE

Major Stephen Rocketto, Wing Director of Aerospace Education, attended the week long Region Staff College at McGuire Air Force Base during the last week and successfully completed the course.

The program is a stepping stone to Level IV of the CAP Professional Development Program and consists of about 50 hours, not counting

homework, of classwork, lectures, clinics on subjects ranging from drill to management techniques. Maj Rocketto served with Alpha Seminar. He was not the honor graduate nor did that Officer come from his seminar. Also, Alpha Seminar did not win the Honor Seminar Award. The offices of Mess President was also denied Alpha. However, Maj Rocketto is proud to report that, at the formal Dining-Out Ceremonies, Alpha Seminar distinguished itself by repeatedly being selected by Madame Vice, the arbiter of Mess regulations and etiquette, for repeated trips to "The Grog Bowl" as a penalty for gauche and disorderly behavior.

Wing Commander Col Peter Jensen attended the Dining-Out and earned honors for Connecticut with his exhibit of a formal undergarment printed with a crossword puzzle. The uniqueness of this piece of clothing ranged far beyond the mere gaudiness of those loud undergarments worn by fellow Wing Commanders present and demonstrated the good taste and intellectual sensibility of Capsters from the Constitution State.



McGuire Air Force Base is named in honor of NJ native, Maj Thomas McGuire, the second ranking US Ace of WW II. The Air Mobility Command is the primary tenant flying C-17s and KC-10s. A representation of McGuire's aircraft, a Lockheed P-38 Lightning, Pudgy V, is mounted in a place of honor near the base gate.

FORMER CADET COMMANDER BRIEFs **THAMES RIVER CADETS ON AIR FORCE** **ACADEMY SUMMER**

Erik Nelson, former TRCS Cadet Commander, visited while on leave from the USAF Academy. He has just returned from Al Udeid Air Base in Qatar after a one month voluntary deployment and briefed the Squadron on his experiences.

Qatar is a small Arab state located on a peninsula on the south side of the Persian Gulf. It is about the size of Connecticut and its oil and gas reserves make it one of the wealthiest states in the world.



Daytime temperatures are in the range of 120 degrees Fahrenheit and the maritime environment mean that the humidity is high, a most uncomfortable environment. When one leaves an air conditioned building, the heat, Nelson said, is like sticking your head near an open oven.

Al Udeid AB serves as a command center, aircraft launch and maintenance field, pre-positioned supply facility, and communications station. The North American-Rockwell B-1B is armed at Al Udeid and flies 12 hours missions over the Southwest Asia Theatre of Operations.

While at Al Udeid, Erik and his fellow classmates worked in number of fields, learning about the problems faced by an expeditionary air force and applying the lessons which they have learned at The Academy.

Eric was accompanied by his classmate, Krista Henry, a fellow aeronautical engineering major, who spent the summer at The Academy as a glider instructor. Both Eric and Krista are private pilots and they flew to Connecticut via Arkansas in Krista's Piper PA-24-250 Comanche which Eric painted. They leave next week to visit the annual Experimental Aircraft Association convention in Oshkosh and then return for their last year at Colorado Springs.



The Arkansas Traveler

MEMORIES OF AUGUST'S PAST

01 AUG, 1929-GAF *Zeppelin*, under the command of Dr. Hugo Eckner, departs Friedrichshafen on the first airship circumnavigation of the world.

02 AUG, 1911-Harriet Quimby becomes the first US licensed woman pilot.

03 AUG, 1915-German aircraft attack Luneville, France in the first aerial bombardment in the War to End All Wars.

04 AUG, 1959-A Sikorsky S-51 (USAF H-5 Dragonfly) helicopter successfully evacuates casualties for the first time from a Mobile Army Surgical Hospital.



One Version of the USAF Dragonfly

05 AUG, 1930-The legendary "Pancho" Barnes flying a Travel Air Type R "Mystery Ship", establishes a women's speed record of 196.19 mph.

06 AUG, 1957-Rockoon No. 59, a rocket launched from a balloon, instrumented by the State University of Iowa, gathers the first data on the auroral zone of the earth's magnetic field in an experiment conducted by James Van Allen and Lawrence J. Cahill.

07 AUG, 1919-Capt Ernest Hoy, flying a Curtiss JN-4 completed the first flight over the Rocky Mountains carrying mail from Vancouver to Calgary.

08 AUG, 1924-The ZR-1, USS Shenandoah, becomes the first airship to moor to a ship, the USS Pakota, in Narragansett Bay, Rhode Island.

09 AUG, 1945-Charles Sweeney flies the B-29 Superfortress, *Bock's Car* to Nagasaki on the second atomic bomb mission.

10 AUG, 1921-The US Navy's Bureau of Aeronautics is established and Rear Admiral William A. Moffett is named as its first Chief.

11 AUG, 1939-An Imperial Airways Shorts Caribou flying boat completes the first round trip trans-Atlantic air mail flight.

12 AUG, 1944-The production run of the hero of the Battle of Britain, the Hawker Hurricane, is ended.



Hurricane on Display in Canada

13 AUG, 1941-First Flight of the Messerschmidt ME-163 rocket plane is conducted by Heini Dittman at Peenemunde.

14 AUG, 1947-The Royal Pakistan Air Force is established.

15 AUG, 1951-A modified British European Airways DC-3 equipped with the classic Rolls Royce Dart engines initiates turboprop freight service.

16 AUG, 1927-Art Goebel and Lt W. Davis win the Dole Derby, Oakland to Honolulu.

17 AUG, 1978-The Double Eagle II completes the first trans-Atlantic crossing by balloon departing from Maine and landing in France.



Gondola of the Double Eagle

18 AUG, 1901-Wilbur Wright, at the invitation of Octave Chanute, delivers his paper, "Some Aeronautical Experiments" to the Western Society of Engineers in Chicago.

19 AUG, 1932-Jim Mollison flying a De Havilland Puss Moth named *Heart's Content*, completes the first east to west solo of the North Atlantic Ocean.



Puss Moth on Display at Udvar-Hazy

20 AUG, 1917-Squadron Commander E.H. Dunning flying a Sopwith Pup makes the first aircraft landing on a moving ship, the converted cruiser, *HMS Furious*.

21 AUG, 1943-President Franklin D. Roosevelt announces that no more Japanese troops occupy North American territory after US and Canadian forces clear Kiska Island in the Aleutian Chain.

22 AUG, 1947-Hugh Dryden replaces George Lewis as Director of NACA.

23 AUG, 1941-Capt. Homer Boushey makes the first rocket powered flight of a US aircraft when he is launched in a propellor-less Ercoupe powered by 12 JATO units.



Fred Weick's Revolutionary Ercoupe is Modified to be First US Rocket Plane

24 AUG, 1970-USAF Sikorsky HH-52Cs, supported by Lockheed C-130 tankers, make the first non-stop trans-Pacific helicopter flight departing Eglin AFB Florida and landing at Da Nang, Republic of Vietnam.



A "Jolly Green" in Warpaint"

25 AUG, 1940-Edouard Michelin, aviation advocate, goes West.

26 AUG, 1959-During the Eisenhower presidency, Boeing VC-137s replace the Lockheed Constellations as the principal Air Force One aircraft.

27 AUG, 1937-First Flight of a jet propelled aircraft, the Heinkel He 178, piloted by Erich Warsitz and powered by Hans Ohain designed engines.

28 AUG, 1908-The US Army purchases its first dirigible.

29 AUG, 1988-Soyuz TM-6 carries Col Abdul Mohmad, the first Afghan in space, and two Soviet crew mates into orbit.

30 AUG, 1923-Lawrence Sperry demonstrates the first gyro stabilizer for aircraft in a US Navy Curtiss C-2 flying boat piloted by Lt Patrick Bellinger.

31 AUG, 1938-France initiates a trans-Atlantic survey flight from Horta in the Azores to Port Washington, NY using a Latecoere 521, the *Lieutenant de Vaisseau Paris*.

ETHOS TRAINING

Capt Jeff Travers moderated a training session for the Eyes on the Homeland Skies mission on July 22nd at the Homeland Security Building, Brainard Field. Approximately three dozen CTWG pilots, observers, and scanners attended.

Maj Brian Romano explained the pros and cons of the various imaging systems available, Slow Scan Television, Satellite Data Information System, and Discrete Imaging Slow Scan. The setup and operation of the Nikon 200 camera was then discussed by Col Anthony Vallilo.

The balance of the meeting was then devoted to a discussion of how the training will be implemented and contingency plans if difficulties arise in the transmission of data.